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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/778,860	02/08/2001	Mitsuru Iwasaki	040679-1209	6172

22428 7590 10/15/2004

FOLEY AND LARDNER  
SUITE 500  
3000 K STREET NW  
WASHINGTON, DC 20007

EXAMINER

CIRIC, LJILJANA V

ART UNIT	PAPER NUMBER
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3753

DATE MAILED: 10/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Supplemental  
Notice of Allowability**

Application No.

09/778,860

Examiner

Ljiljana (Lil) V. Ciric

Applicant(s)

IWASAKI ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to interviews on 2 & 10 September 2004.
2. ☒ The allowed claim(s) is/are 7,9,10,13 and 29-38.
3. ☒ The drawings filed on 08 February 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 10072004.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
Ljiljana (Lil) V. Ciric  
Primary Examiner  
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### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in telephone interviews with Attorney Pavan Agarwal, Registration No. 40,888, on September 2 and on September 10, 2004.

The application has been amended as follows:

In the claims:

Cancel claims 1, 2, 4 through 6, and 8.

Claim 9, line 1: Delete "as claimed in Claim 8" and replace with --of an integral heat-exchanger, comprising: at least two first heat exchanger tubes which extend in parallel with each other; at least two second heat exchanger tubes which extend in parallel with each other, wherein the two second heat exchanger tubes are juxtaposed with the first heat exchanger tubes; and a corrugated fin including a corrugated first part interposed between said first heat exchanger tubes, a corrugated second part interposed between said second heat exchanger tubes, and a flat connection part arranged between the corrugated first and second parts, wherein said corrugated first part of the fin is formed with a plurality of first louvers each extending substantially between the two first heat exchanger tubes, wherein said corrugated second part of the fin is formed with a plurality of second louvers each extending substantially between the two second

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heat exchanger tubes, wherein an innermost one of said second louvers is positioned away from an innermost end of said corrugated second part of the fin by a given length, wherein said flat connection part is formed with a third louver in the vicinity of an innermost one of said first louvers, wherein said third louver is constructed to obstruct a heat transfer in the fin, wherein said third louver is positioned substantially across the width of the flat connection part, and wherein the length between said third louver and said innermost one of said second louvers is substantially equal to the length of said flat connection part of said fin--.

Cancel claim 11.

Reinstate claim 13.

Also, in claim 13, lines 17-18: Delete "wherein each said radiation portion is constructed not to deteriorate the heat transfer in the fin substantially" and replace with -- wherein each of said plurality of heat radiation portions is constructed to avoid deterioration of the heat transfer in the fin substantially--.

Reinstate each of claim 29 through 38.

In claim 29, line 1: Delete "in Claim 28" and replace with --in Claim 13--.

In claim 33, line 1, delete "as claimed in Claim 1" and replace with --of an integral heat-exchanger, comprising: at least two first heat exchanger tubes which extend in parallel with each other; at least two second heat exchanger tubes which extend in parallel with each other, wherein the two second heat exchanger tubes are juxtaposed with the first heat exchanger tubes; and a corrugated fin including a corrugated first part interposed between said first heat exchanger tubes, a corrugated second part interposed between said second heat exchanger tubes, and a flat connection part arranged between the corrugated first and second parts, wherein said corrugated

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first part of the fin is formed with a plurality of first louvers each extending substantially between the two first heat exchanger tubes, wherein said corrugated second part of the fin is formed with a plurality of second louvers each extending substantially between the two second heat exchanger tubes, wherein an innermost one of said second louvers is positioned away from an innermost end of said corrugated second part of the fin by a given length, wherein said flat connection part is formed with a third louver positioned closer to an innermost one of said first louvers than to the innermost one of said second louvers, wherein said third louver is constructed to obstruct a heat transfer in the fin, and wherein said third louver is positioned substantially across the width of said flat connection part--.

Also, in claim 33, lines 6-7: Delete "wherein each said radiation portion is constructed not to deteriorate the heat transfer in the fin substantially" and replace with – wherein each of said plurality of heat radiation portions is constructed to avoid deterioration of the heat transfer in the fin substantially--.

2. EP 825404 A2, published on February 25, 1998, has the same disclosure as U.S. Patent No. 6,095,239 (previously of record), issued to Makino et al. on August 1, 2000.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ljiljana (Lil) V. Ciric, whose telephone number is (703) 308-3925. While she works a flexible schedule that varies from day to day and from week to week, Examiner Ciric may generally be reached at the Office during the work week between the hours of 10 a.m. and 6 p.m. ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Mancene, can be reached on (703) 308-2696. The NEW central official fax


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phone number is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0861.

lvc

October 7, 2004

  
LJILJANA V. CIRIC  
PRIMARY EXAMINER  
ART UNIT 3753